

WHAT IS CLAIMED IS:

1. A fuel cell system comprising:

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a fuel cell unit;

a humidifier unit for humidifying process gases to be fed to the fuel cell unit; and

heatable water-carrying media conduits which provide water to said humidifier unit.

2. The fuel cell system according to Claim 1, further comprising a unit for extracting water from process gases of said fuel cell unit and providing it to said heatable media carrying conduits.

3. The fuel cell system according to Claim 1, wherein said media conduits include an electrically heatable conduit section.

4. The fuel cell system according to Claim 1, wherein the heatable media conduits are provided downstream of the fuel cell unit.

5. The fuel cell system according to Claim 1, wherein said heatable media conduits are disposed between a water separator

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for separating water from cathode off-gas of said fuel cell and a metering point for feeding media into a cathode air input.

6. The fuel cell system according to Claim 1, further comprising a heatable drain line for discharging water from the fuel cell unit.

7. A fuel cell system comprising:

a fuel cell unit;

a first conduit for providing process air to a cathode side input of said fuel cell unit;

a humidifier unit disposed in said first conduit for adding moisture to said process air;

a second conduit for providing water to said humidifier unit;

wherein said second conduit comprises a heatable conduit section for warming said water.

8. The fuel cell system according to Claim 7, further comprising a unit for extracting water from process gases of said fuel cell unit and providing it to said second conduit.